

A Study on Efficacy of *Kalium Phosphoricum* 6x and *Sabal Serrulata* 30c in Increasing the Rate of Growth and Yielding Capacity in *Raphanus sativus*

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Research Article Volume 8 Issue 4 Received Date: December 01, 2023 Published Date: December 26, 2023 DOI: 10.23880/oajar-16000345

Abstract

Agro-Homeopathy, inspired by the principles of homeopathy aimed at enhancing self-healing abilities in living organisms, explores the potential of potentized remedies to manage and prevent diseases in crops. This study evaluates the efficacy of *Kalium Phosphoricum* 6X and *Sabal Serrulata* 30C in enhancing the growth and yield capacity of *Raphanus sativus* (Radish). This research findings indicate that *Kalium Phosphoricum* 6X has a limited impact on promoting growth, while *Sabal Serrulata* 30C exhibits inhibitory properties, with no significant growth observed. These results also reveal the positive influence of NPK organic fertilizer in improving germination and growth. However, further research is necessary to understand and enhance the effects of *Sabal Serrulata* 30C in agricultural applications.

Keywords: Raphanus sativus; Sabal Serrulata; Kalium Phosphoricum; Agro-Homeopathy

Introduction

Agro-homeopathy, a specialized field of homeopathy, offers a holistic approach to plant care, from seed germination to crop production through various researches has shown that homeopathic treatments can enhance plant growth, germination rates, and bolster defenses against pathogens and pests [1]. Proper selection of homeopathic remedies, their potency, and higher dilutions (1:500 or 1:1000) in water can be a profitable alternative to chemical inputs, potentially boosting farmers' economy. *Raphanus sativus*, the radish, is a versatile root vegetable, rich in nutrients and antioxidants [2]. It grows rapidly but requires ample sunlight and moisture. Agro-homeopathy shows promise in altering plant physiology, managing stress, and treating plant

Diseases efficiently.

Materials and Methods

Plant Sample Collection & Culture Conditions

The *Raphanus sativus* seeds are collected from the farmers, in Kulasekharam. Then, the seeds are planted in a suitable climatic condition. *Raphanus sativus* is a cool season crop, preferring temperatures between 40-70°F. Planting deeper than 2 cm, Produces elongated roots. The seeds were divided into four distinct batches, each set to be planted in suitable soil with a moderate temperature regime. Batch 1 seeds underwent hydro-priming, where they were treated with water to initiate germination. Batch 2 seeds were treated

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with *Kalium Phosphoricum* 6X through the osmopriming method, targeting to improve seed performance. Batch 3 seeds received the osmopriming treatment with *Sabal Serrulata* 30C, a homeopathic remedy believed to impact seed development.

Batch 4 seeds were subjected to halopriming with an inorganic fertilizer boosting an N: P: K ratio of 5:10:5, promoting enhanced growth conditions.

Results and Discussion

Germination of Seeds

Batch	No. of Seeds Planted	No. of Seeds Germinated
Control	15	10
Kalium Phosporicum 6x	15	12
Sabal	15	-
Serrulat A 30C		
Npk	15	6

Table 1: Number of Seeds Planted: Number of Seeds Germinated.



Date	Control	Kalium Phosphoricum 6x	Sabal Serrulata 30c	Npk
1st week	15cm	14cm	-	15cm
3rd week	18cm	16 cm	-	18cm
5th week	26cm	27cm	-	22cm
7th week	28cm	27cm	-	26cm
10 week	33cm	29cm	-	30cm

Table 2: Length of the leaves.



Date	Control	Kalium Phosphoricum 6x	Sabal Serrulata 30c	Npk
1st week	8	4	-	4
3rd week	8	4	-	6
5th week	9	6	-	7
7th week	10	8	-	9
10th week	13	8	-	11

Table 3: No. of leaves in Raddish.



It is observed that Figure 3 shows the maximum number of leaves were presented in the control which is 13 leaves compared with all the batches. The minimum number of leaves were presented in the *Kalium Phosphoricum* 6x which is 8 leaves.

Control	24 cm
Kalium	18cm
Phosphoricu M 6x	
Sabal	-
Serrulata 30c	
Npk	27.5cm

Table 4: Length of the Raddish [After 10th Week].



It is observed that the Figure 4 shows the lenght of raddish in all the batches after 10 th week. The maximum lenght of the raddish is present in the npk which is 27.5 cm and the minimum length of the raddish is seen in the *Kalium Phosphoricum* 6x which is 18cm.

Control	93g
Kalium Phosphoricum 6x	70g
Sabal Serrulata 30c	-
Npk	187g

Table 5: Weight of the Raddish [After 10th Week].



It is observed that the Figure 5 shows that the weight of the raddish in all batches after 10th week .The maximum weight of the raddish is present in NPK which is 187g and the minimum weight of the raddish is present in *Kalium Phosphoricum* 6x which is 70g.



Discussion

In a study by Carlos Moacir Bonato, et al. [3] the effects of various homeopathic Sulphur dilutions (5 CH, 12 CH, 30 CH, 200 CH, and 1 MCH) on radish growth were investigated. Weekly applications of these solutions significantly improved various plant characteristics, with the 5 CH, 12 CH, 30 CH, and 1 MCH dilutions showing the best results, while the 200 CH dilution had less positive effects [3].

This suggests that homeopathic medicine Sulphur could be an alternative for enhancing the productivity and appearance of agricultural products while reducing input requirements. In this study, it was found that NPK had a stronger influence on Raphanus sativus growth compared to *Kalium Phosphoricum* 6X, which had a less pronounced effect. *Sabal Serrulata* 30C showed no growth promotion and, in fact, displayed inhibiting properties.

Conclusion

As from the experiment we can observe that the NPK [ratio of nitrogen, phosphorus, potassium] which were used on the *Raphanus sativus* shows a good response in the growth of the raddish compared to the other batch. In this study it shows that NPK has more action in growth of the raddish and

control is more effective in height of the plant, Length of the root, growth of leaves and branches.

This method of treating the plants with homoepathic potentised medicines of *Kalium Phosphoricum* shows the increase in the germination of seeds in soil so it can improve the biological benefits.

However, further studies are required on its influence on the increasing the potencies of the *Kalium phosphoricum* and *Sabal Serrulata* in the *Raphanus sativus*.

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